

Rabindranath Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

947
citations

516710

16
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanism of cyclic plastic deformation of alloy IN 718 at 600°C. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 877-885.	3.4	16
2	A Sketch of My Life. , 2016, , 211-223.		0
3	Study on the Formation and Characterization of the Intermetallics in Friction Stir Welding of Aluminum Alloy to Coated Steel Sheet Lap Joint. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5098-5106.	2.2	49
4	Effect of microstructural parameters, microtexture and matrix strain on the Charpy impact properties of low carbon HSLA steel containing MnS inclusions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 613, 37-47.	5.6	57
5	Prediction of carbide free layer formation in Fe-Ni-Cr austenitic steel process heater tube. Corrosion Engineering Science and Technology, 2012, 47, 121-125.	1.4	1
6	Assessment of creep and rupture behavior of 2.25Cr-1Mo steel – A strain based approach and its limitation. Transactions of the Indian Institute of Metals, 2010, 63, 403-409.	1.5	0
7	A stochastic model for evolution of creep damage in engineering materials. Transactions of the Indian Institute of Metals, 2010, 63, 665-669.	1.5	9
8	Development of rapidly solidified 6.5 wt% silicon steel for magnetic applications. Transactions of the Indian Institute of Metals, 2010, 63, 745-750.	1.5	12
9	Role of strain-induced martensite on microstructural evolution during annealing of metastable austenitic stainless steel. Journal of Materials Science, 2010, 45, 911-918.	3.7	18
10	Investigation on the failure of air compressor. Engineering Failure Analysis, 2010, 17, 150-157.	4.0	31
11	Low cycle fatigue behaviour of duplex stainless steel: influence of isothermal aging treatment. Fatigue and Fracture of Engineering Materials and Structures, 2010, 33, 77-86.	3.4	14
12	Effect of Mn on Sn-Ag-Cu ternary lead free solder alloy-Cu assembly: A comparative study. Materials Science and Technology, 2010, 26, 610-614.	1.6	10
13	Near-grain-boundary characterization by atomic force microscopy. Ultramicroscopy, 2009, 109, 741-747.	1.9	2
14	Effect of 475°C embrittlement on the mechanical properties of duplex stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 508, 1-14.	5.6	163
15	CHARACTERIZATION OF PRECIPITATION BEHAVIOR IN NIMONIC 263 BY ULTRASONIC VELOCITY MEASUREMENTS. , 2009, , .		1
16	Mechanical strength and microstructural observations for remaining life assessment of service exposed 24Ni-24Cr-1.5Nb cast austenitic steel reformer tubes. Engineering Failure Analysis, 2008, 15, 723-735.	4.0	9
17	Failure analysis and remaining life assessment of service exposed primary reformer heater tubes. Engineering Failure Analysis, 2008, 15, 311-331.	4.0	79
18	Correlation between ultrasonic velocity and indentation-based mechanical properties with microstructure in Nimonic 263. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 488, 398-405.	5.6	34

#	ARTICLE	IF	CITATIONS
19	Development of IF steel-Al multilayer composite by repetitive roll bonding and annealing process. Materials Science and Technology, 2008, 24, 798-802.	1.6	13
20	NONLINEAR ULTRASONIC TO ASSESS LOCALIZED PLASTIC DEFORMATION DURING HIGH CYCLE FATIGUE. AIP Conference Proceedings, 2008, . .	0.4	1
21	Interfacial microstructure, shear strength and electrical conductivity of Sn-3.5Ag-0.5In/Cu lead free soldered joints. Materials Technology, 2007, 22, 161-165.	3.0	5
22	Randomization of texture during recrystallization of austenite in a cold rolled metastable austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 443, 114-119.	5.6	34
23	Effect of copper addition on the microstructure and mechanical properties of lead free solder alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 69-74.	5.6	22
24	Ageing behavior study of 5Cr-0.5Mo steel by magnetic Barkhausen emissions and magnetic hysteresis loop techniques. NDT and E International, 2007, 40, 173-178.	3.7	24
25	Structure property correlation study of a service exposed first stage turbine blade in a power plant. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 419, 225-232.	5.6	22
26	Reactive diffusion in the roll bonded iron-aluminum system. Materials Letters, 2006, 60, 1758-1761.	2.6	58
27	Materials characterization and classification on the basis of materials pile-up surrounding the indentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 408, 158-164.	5.6	42
28	Microstructure, tensile strength and wear behaviour of Al-Sc alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 383, 374-380.	5.6	70
29	MULTIAXIAL LIFETIME PREDICTIONS OF SINGLE-CRYSTAL SUPERALLOYS: USE OF REFERENCE STRESSES. Materials and Manufacturing Processes, 2002, 17, 519-528.	4.7	6
30	Modelling of Interaction between Creep and Oxidation Behaviour for Engineering Materials. ISJ International, 2001, 41, 915-920.	1.4	8
31	Modelling of transformation kinetics in HSLA 100 steel during continuous cooling. Scandinavian Journal of Metallurgy, 2001, 30, 8-13.	0.3	7
32	High temperature creep behaviour of single crystal superalloy. Materials Science and Technology, 1998, 14, 429-434.	1.6	0
33	Mechanisms and modelling of creep in superalloys. Sadhana - Academy Proceedings in Engineering Sciences, 1995, 20, 287-300.	1.3	0
34	Creep life extension of high temperature components under wall thinning conditions. Sadhana - Academy Proceedings in Engineering Sciences, 1995, 20, 331-339.	1.3	3
35	Creep strain prediction of 2 1/4 Cr 1Mo steel-A model based approach. Bulletin of Materials Science, 1994, 17, 663-670.	1.7	4
36	Modelling high-temperature creep of anisotropic material. Bulletin of Materials Science, 1994, 17, 1341-1350.	1.7	2

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37	Volume fraction dependent particle coarsening in plain carbon steel. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 777-781.	1.8	17
38	Extension of an anisotropic creep model to general high temperature deformation of a single crystal superalloy. <i>European Physical Journal Special Topics</i> , 1993, 03, C7-629-C7-634.	0.2	1
39	Creep deformation of single crystal superalloysâ€™ modelling the crystallographic anisotropy. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 1977-1992.	1.8	99
40	Computer simulation of high temperature creep recovery and work hardening rate measurement techniques. <i>Metal Science</i> , 1983, 17, 590-600.	0.7	4